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85331A/47 L02

KIEV ENG CONS INST

22.07.76-SU-389734 (05.01.78) C04b-15/08

Mixt. for the mfr. of bricks - confg. dehydrated clay, hydrated nepheline sludge and granulated nepheline sludge

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238

Mixture for the mfr. of building bricks contains (in wt. %): dehydrated clay (I) 5-40, hydrated nepheline sludge (II) 30-80 and nepheline sludge of specified coarseness (mod. 1.5-2.5) (III) the rest. The clay (I) is obtd. by heating to 500-800°C and (II) is obtd. by grinding with water at the solid: water ratio of 3:0.5, and steaming or autoclaving. Semi-dry pressing under 150-400 kg/cm² yields bricks which require no further firing or autoclaving.

EXAMPLE

A typical mixt. confg. (in wt. %): (I) 5, (II) 80 and (III) 15. gave bricks with compressive strength of 102 kg/cm² at once after forming, the strength increasing after 28 days in air (water) to 205(208) kg/cm². The bricks withstand 35 freezing cycles. (2pp124)

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